

Message

From: Cirian, Mike [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=98D0FD2CBB3F4F25B819C6929E18D08D-CIRIAN, MIKE]
Sent: 5/3/2016 5:26:41 PM
To: Michael Ritorto [mritorto@rouxinc.com]
CC: Steve Wright - CFAC [swright@cfaluminum.com]; John Stroiazzo(Toronto - Copper) (John.Stroiazzo@glencore-ca.com) [John.Stroiazzo@glencore-ca.com]
Subject: RE: CFAC Phase I SAP

Hello Mike,

I forwarded on your responses. Thanks for the timely response.

Mike C.

Mike Cirian, PE
Libby On-site Project Manager
US EPA
108 East 9th Street
Libby, MT 59923
(406) 293-6194 Office

From: Michael Ritorto [mailto:mritorto@rouxinc.com]
Sent: Friday, April 29, 2016 1:25 PM
To: Cirian, Mike <Cirian.Mike@epa.gov>
Cc: Steve Wright - CFAC <swright@cfaluminum.com>; John Stroiazzo(Toronto - Copper) (John.Stroiazzo@glencore-ca.com) <John.Stroiazzo@glencore-ca.com>
Subject: RE: CFAC Phase I SAP

Good Afternoon Mike,

Please see the attached responses. Please let us know if you have any additional questions.

Michael Ritorto
Senior Hydrogeologist | ROUX ASSOCIATES, INC.
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From: Cirian, Mike [mailto:Cirian.Mike@epa.gov]
Sent: Wednesday, April 27, 2016 3:54 PM
To: Michael Ritorto <mritorto@rouxinc.com>; Andrew Baris <abaris@rouxinc.com>
Cc: Steve Wright - CFAC <swright@cfaluminum.com>; John Stroiazzo(Toronto - Copper) (John.Stroiazzo@glencore-ca.com) <John.Stroiazzo@glencore-ca.com>
Subject: FW: CFAC Phase I SAP

Hi Mike,

Below is a response and questions from my Risk assessor. Would you like to respond to her questions?

Thanks,
Mike

Mike Cirian, PE
Libby On-site Project Manager
US EPA
108 East 9th Street
Libby, MT 59923
(406) 293-6194 Office

From: Griffin, Susan
Sent: Tuesday, April 26, 2016 2:28 PM
To: Cirian, Mike <Cirian.Mike@epa.gov>
Cc: Wall, Dan <wall.dan@epa.gov>; Bowen, Ian <Bowen.Ian@epa.gov>
Subject: RE: CFAC Phase I SAP

Hi Mike,

I got a chance to read through the RI/FS workplan and the Phase I Site Characterization SAP. Overall, I'm impressed by the quality of work put into these documents by Roux Associates. Between the soil, surface water, sediment, soil gas, and groundwater data samples collected in this SAP, and those collected previously in the 2014 "Site Reassessment for Columbia Falls Aluminum Co." and the 2014-2015 residential well sampling it looks like you should get a fairly robust and representative data set for assessing human health. I was especially pleased to see the wide variety of analytes (TAL metals, VOCs, SVOCs, PCBs, pesticides, cyanide and flouride) to be measured given the site's past history. A couple of questions and comments came up for me.

- Since the operation permanently closed in 2015, what will become of the main plant area and the buildings on it? Will the site remain industrial with institutional controls? Will the buildings be demolished? If so, will the area be sampled in a later phase of the investigation? I noticed there are no current environmental samples being planned for this area.
- The human health site conceptual model should be revised to include ingestion of sediment and surface water. Right now only dermal exposure is considered to be complete.
- The food chain, such as hunting and fishing, are considered to be complete pathways in the site conceptual model. How do the authors propose to quantitatively evaluate this pathway? Will biological media be collected in a later phase?
- It is unclear to me how the authors propose to evaluate the "soil vapor" pathway? Are they looking at indoor vapor intrusion for existing or future buildings? Will they be modeling indoor air from groundwater and soil gas data? It would have been helpful if the RI risk assessment workplan had provided a little more detail about this. This is definitely a pathway I would look at more closely when the baseline risk assessment is developed.

Just some things to consider when the baseline risk assessment comes around.

Sincerely,
Susan

From: Cirian, Mike
Sent: Wednesday, April 20, 2016 2:56 PM

To: Hoogerheide, Roger; Bowen, Ian; Griffin, Susan; Wall, Dan

Cc: Vranka, Joe

Subject: RE: CFAC Phase I SAP

Please look for an email from a Mike Ritorto of Roux. He will be forwarding the RI/FS Work Plan for all to enjoy!

Thanks again,
Mike

Mike Cirian, PE
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From: Cirian, Mike

Sent: Wednesday, April 20, 2016 2:30 PM

To: Hoogerheide, Roger <Hoogerheide.Roger@epa.gov>; Bowen, Ian <Bowen.Ian@epa.gov>; Griffin, Susan <Griffin.Susan@epa.gov>; Wall, Dan <wall.dan@epa.gov>

Cc: Vranka, Joe <vranka.joe@epa.gov>

Subject: CFAC Phase I SAP

Hello All,

It was nice touching base with all of you yesterday. I appreciate the offer to help where and when you can. I have attached is the Phase I Site Characterization SAP we discussed. I will be sending a copy of the RI/FS Work Plan under a different email. Please let me know if this does not come through.

Thanks,
Mike

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